Highly Sensitive Water-soluble System to Sense Glucose in Aqueous Solution

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Electronic Supplementary Information (ESI†)

Fig. S1 Stern-Volmer plot of PP-S-BINOL quenching by o-BBV in the present of glucose (100 mM) 2
Fig. S2 The amplified fluorescence quenching of PP-S-BINOL and o-BBV with the addition of glucose 3
Fig. S3 The colour change of PP-S-BINOL/o-BBV system followed by glucose 50.0 mM 4
Fig. S4 The 1H NMR of 1,4-dibromo-2,5-bis(3-sulfonatopropoxy)benzene 5
Fig. S5 The 13C NMR of 1,4-dibromo-2,5-bis(3-sulfonatopropoxy)benzene 6
Fig. S6 The 1H NMR of (S)-2,2'-dimethoxy-6,6'-bis-(4,4,5,5-tetramethyl-1,3,2-dioxaborolane)-1,1'-naphthalene 7
Fig. S7 The 13C NMR of (S)-2,2'-dimethoxy-6,6'-bis-(4,4,5,5-tetramethyl-1,3,2-dioxaborolane)-1,1'-naphthalene 8
Fig. S8 The 1H NMR of PP-S-BINOL 9
Fig. S9 The 13C NMR of PP-S-BINOL 10
Fig. S10 The 1H NMR of o-BBV 11
Fig. S11 The 13C NMR of o-BBV 12
Fig. S1 Stern-Volmer plot of PP-S-BINOL (4.0 × 10^{-6} M) quenching by $\alpha$-BBV in the present of glucose (100 mM) at pH 7.4. The molarity of PP-S-BINOL was calculated according to the minimum structure unit of polymer.
**Fig. S2** The amplified fluorescence quenching of PP-S-BINOL (4.0 × 10\(^{-6}\) M) and \(o\)-BBV (4.0 × 10\(^{-5}\) M) with the addition of glucose in pH 7.4 phosphate buffer solution. The molarity of PP-S-BINOL was calculated according to the minimum structure unit of polymer.
Fig. S3 The colour change of PP-S-BINOL (2.0 ×10^{-4} M) solution by introduction of o-BBV (2.0 ×10^{-4} M) followed by glucose 50.0 mM in pH 7.4 phosphate buffer solution. The solutions were irradiated by λ365 nm UV-Vis light.
Fig. S4 400 MHz $^1$H NMR of 1,4-dibromo-2,5-bis(3–sulfonatopropoxy)benzene in D$_2$O.
Fig. S5 100 MHz $^{13}$C NMR of 1,4-dibromo-2,5-bis(3-sulfonato-propoxy)benzene in D$_2$O.
**Fig. S6** 400 MHz $^1$H NMR of (S)-2,2'-dimethoxy-6,6'-bis-(4,4,5,5-tetramethyl-1,3,2-dioxaborolane)-1,1'-naphthalene in CDCl$_3$. 
**Fig. S7** 100 MHz $^{13}$C NMR of (S)-2,2'-dimethoxy-6,6'-bis-(4,4,5,5'-tetramethyl-1,3,2-dioxaborolane)-1,1'-naphthalene in CDCl$_3$. 
Fig. S8 400 MHz $^1$H NMR of PP-S-BINOL in $d$-DMSO.
Fig. S9: 100 MHz $^{13}$C NMR of PP-S-BINOL in d-DMSO.
**Fig. S10** 400 MHz $^1$H NMR of o-BBV in CD$_3$OD.
Fig. S11 100 MHz $^{13}$C NMR of o-BBV in CD$_3$OD.